00 12/20/08 \*O117-06714-18-97 Lebelle Mande Mand USP AT WALL CENTER RETURN TO SENDER ATTEMPTED - NOT KNOWN UNABLE TO FORWARD DEC 22 2008 O BC: 22313145050 10 10 10 **NHXHU** AN EAUAL PPPORTUNITY EMPLOY 22313@1450 AND TRADEMARK OFFIC If Undeliverable Return In Ten Days Alexandria, VA. 22313-1450 Penalty For Private Use, \$300 Organization The UNITED STATES Official Business P.O. Box 1450

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# NOTICE OF ALLOWANCE AND FEE(S) DUE

12/12/2008

Smith, Gambrell & Russell 1850 M Street, N.W., Suite 800 Washington, DC 20036

EXAMINER				
SELLMAN,	, CACHET I			
ART UNIT	PAPER NUMBER			

DATE MAILED: 12/12/2008

 APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,038	12/04/2003	Kazuyuki Mitsuoka	33082M185	4856

TITLE OF INVENTION: METHOD OF PROCESSING AN ORGANIC-FILM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
* nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

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P.O. Box 1450
Alexandria, Virginia 22313-1450
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appropriate All further	correspondence includired below or directed other	ng the Patent, advance o	orders and notification of m	aintenance fees w	red). Blocks I through 5 sl ill be mailed to the current and/or (b) indicating a sepa	correspondence address as	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
Smith, Gambre 1850 M Street, N Washington, DC	ll & Russell I.W., Suite 800	/2008	l her State addr trans	eby certify that this s Postal Service we essed to the Mail	ificate of Mailing or Transs s Fee(s) Transmittal is being th sufficient postage for firs Stop ISSUE FEE address O (571) 273-2885, on the de	deposited with the United t class mail in an envelope above, or being facsimile	
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/727,038	12/04/2003		Kazuyuki Mitsuoka		33082M185	4856	
APPLN, TYPE	SMALL ENTITY	SSING AN ORGANIC-I	PUBLICATION FEE DUE	PREV. PAID ISSUE	EEE TOTAL EEG(S) DUE	DATE DUE	
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• nonprovisional	NO .	\$1510	\$300	\$0	\$1810	03/12/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS			•	
· SELLMAN,		1792	427-566000			<u></u>	
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> <li>ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON</li> </ol>			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
recordation as set fortl (A) NAME OF ASSIC	n in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing an a (B) RESIDENCE: (CITY)	ssignment. and STATE OR Co	,		
Please check the appropri	ate assignee category or	categories (will not be p	rinted on the patent):	Individual U Cor	rporation or other private gro	oup entity  Government.	
4a. The following fee(s) are submitted:  Ssue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			<ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>				
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					tered attorney or agent; or th		
Authorized Signature  Typed or printed name					D		
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,038	12/04/2003	Kazuyuki Mitsuoka	Mitsuoka 33082M185 4856	
. 75	90 12/12/2008		EXAM	INER
Smith, Gambrell	& Russell		SELLMAN,	CACHET I
1850 M Street, N.V			ART UNIT	PAPER NUMBER
Washington, DC 20036			1792	
			DATE MAILED: 12/12/2008	8

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 407 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 407 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No.	Applicant(s)
10/727,038	MITSUOKA ET AL.
Examiner	Art Unit
CACHET I. SELLMAN	1792
ears on the cover sheet with the co (OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to and MPEP 1308.	olication. If not included
<u>7/2008</u> .	
<u>132</u> .	
e been received.  been received in Application No cuments have been received in this in the communication to file a reply a lENT of this application.  itted. Note the attached EXAMINER' as reason(s) why the oath or declarate to be submitted.  son's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in FOR THE DEPOSIT OF BIOLOGICAL MATERIAL in FOR THE DEPOSIT OF BIOLOGICAL	complying with the requirements  S AMENDMENT or NOTICE OF tion is deficient.  948) attached  Office action of the back) of ti).  nust be submitted. Note the
5. Notice of Informal P. 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e .
	Examiner  CACHET I. SELLMAN  Pars on the cover sheet with the cover sheet with the cover of the cover appropriate communication of the application is subject to and MPEP 1308.  Page 132.  Inder 35 U.S.C. § 119(a)-(d) or (f).  Inder been received.  Inder been received in Application Nocuments have been received in this communication to file a reply lENT of this application.  Interview Summary Paper No./Mail Dat 7.    Examiner's Amending 8.    Examiner's Statement    Examiner's S

#### **DETAILED ACTION**

#### Allowable Subject Matter

- 1. 'Claims 1, 8, 9, 13, 20-21, 25-26, 28-30, and 32 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The prior art teaches a process for forming a polar film on a surface of an organic film where the film is formed of silicon, carbon, hydrogen and oxygen; modifying the film to impart an affinity by irradiating with electron beams in a rare gas atmosphere such as argon by exposing the film to a first pressure and imparting an affinity at a second pressure; applying a polar liquid to the surface of the organic film.
- 3. The prior art reference Gallagher et al. provides examples of treating the film using heat where the resulting contact angle is 68°. However, Gallagher et al. fails to teach or show examples of obtaining angles less than. Furthermore Ross does not state how the electron beam treatment changes/ decreases the contact angle of a silsesquioxane film to be below 58°. Therefore the prior art fails to teach treating the film comprises of silicon, carbon, hydrogen and oxygen with electron beams in order to provide the surface with a contact angle of less than 58°.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CACHET I. SELLMAN whose telephone number is

Art Unit: 1792

(571)272-0691. The examiner can normally be reached on Monday through Friday, 7:00 - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cachet I Sellman Examiner Art Unit 1792

/C. I. S./ Examiner, Art Unit 1792

/William Phillip Fletcher III/
Primary Examiner, Art Unit 1792